



Back to You Free Breath
Yuxing Honeycomb Ceramics



HONEYCOMB CERAMIC SUBSTRATE

蜂窝陶瓷载体



江苏省宜兴非金属化工机械厂有限公司
Jiangsu Province Yixing Nonmetallic Chemical Machinery Factory Co.,Ltd.

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企业网 站



企业公众 号

202107版



江苏省宜兴非金属化工机械厂有限公司
Jiansu Province Yixing Nonmetallic Chemical Machinery Factory Co.,Ltd.

企业简介

COMPANY PROFILE

Jiangsu Province Yixing non-metallic chemical machinery factory Co., Ltd., was founded in 1957, inherited 60 years' experience in ceramic research, development and production, Yuxing has grown into nationwide high-tech enterprise with structural ceramic and Micro-porous ceramic as core products. Our factory covers 150 thousand square meters and own nearly one hundred million CNY fixed assets. The complete production process as well as the high standard requirement process allow each product of Yuxing to meet our clients' requirements. Now, Yuxing have developed nearly 1000 different dimensions products and reach an annual production capacity of 8million liters.

江苏省宜兴非金属化工机械厂有限公司创建于1957年，传承60年专注陶瓷领域研发生产的经验，成长为以结构陶瓷、微孔陶瓷为核心的国家级高新技术企业，企业占地面积15万平米，拥有固定资产近一个亿，全流程高标准的过程控制保障每件宇星产品都满足客户的要求。目前已形成千个规格尺寸800万升/年的生产能力。

Yuxing pay much attention on products quality control, environmental protection and occupational health of employees and own certificates of IATF16949, ISO14001 and ISO45001. In order to improve the management and reach international level, Yuxing has established long-term cooperation with the world famous international consulting companies and carry out TPM, Quality FMEA, 5S, lean production and safety production training timing.

公司非常重视产品质量控制，环境保护及员工职业健康，已通过IATF16949, ISO14001, ISO45001等管理体系的认可。为进一步提升管理，公司与国际著名的咨询公司建立长期的合作，定期对员工进行TPM（全员生产维护）、质量管理FMEA、5S管理、精益生产等培训。

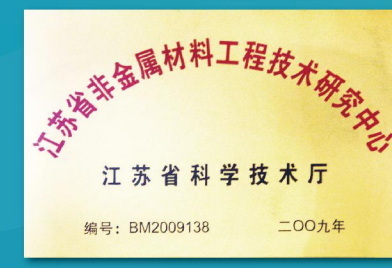


In the past more than 60years, as a leader of the Micro-porous ceramic technolog, Yuxing always insists on placing technol innovation as the core power of enterprise development, Investment more than 20 million CNY on R&D and technology upg every year. Now, Yuxing own national and provincial technical research and development center, has take on more than 10 nat and provincial science and technology projects, owned over 100 nation patents, among them:

- 2 items 863 National Project;
- 6 items National Science and Technology Innovation Fund Project;
- 4 items National and Provincial Torch Program;
- 1 item Provincial Science and Technology Achievement Transformation Project;
- 4 items Provincial Science and Technology Key Project, Provincial Science and Technology Support Plan Project;
- Own 55 patents, including 16 invention patents and 39 utility model patents;

长期以来，作为中国微孔陶瓷技术的领航者，宇星始终坚持将科技创新作为企业发展的核心动力，每年投入2000多万进行研发和技术改造升级，目前拥有国家级和省级非金属材料研发中心，先后承担了10多项国家级和省级科研项目，获得了超过100项国家专利，其中：

- 国家863计划项目2项；
- 国家级科技创新基金项目6项；
- 国家级、省级火炬计划4项；
- 省科技成果转化项目1项；
- 省科技攻关项目、省科技支撑计划项目4项；
- 拥有专利64件，其中发明专利24件，实用新型专利40件。



蜂窝陶瓷发展历程

PROFESSIONAL HISTORY

We started developing honeycomb ceramic substrate in 1984. The earliest enterprise of researching, developing and producing honeycomb ceramic substrate in China.

With more than 30 years' experience in honeycomb ceramic substrate R&D and production, as the leader of China's honeycomb ceramic substrate manufacture and creator, of China's honeycomb ceramic substrate standard, Yuxing has filled the industry blank with continuous innovation technology and products, Witness and participate the milestone development of honeycomb ceramic substrate in china.

公司于 1984 年开始研制蜂窝陶瓷，是国内较早研发和生产蜂窝陶瓷的企业。

三十多年来专注蜂窝陶瓷的研发和生产，作为中国蜂窝陶瓷行业的深耕者和中国陶瓷行业标准的制定者宇星以不断创新的技术和产品推动行业发展，见证并参与了蜂窝陶瓷在中国的里程碑式发展。

Our company cooperated with Shanghai Institute of Ceramics, Chinese Academy of Sciences to firstly start to develop and produce cordierite honeycomb ceramic at home, and passed identification by Jiangsu Province Science and Technology Commission in 1985.

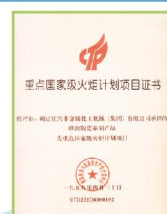


The 400 hole / square inch thin wall cordierite honeycomb ceramics project is included in the eighth five year plan of the country.

Honeycomb ceramic won the national new products.

Our company led to draft "honeycomb ceramic" national standard of PRC's building materials industry.

我公司牵头起草了中华人民共和国建材行业《蜂窝陶瓷》标准。



1984

我公司与中国科学院上海硅酸盐研究所合作率先在国内开发研制和生产堇青石蜂窝陶瓷，1985 年通过江苏省科委的鉴定。

1987

200 hole/inch² thin-wall thickness cordierite honeycomb ceramic won second class prize of Jiangsu Advanced Science and Technology.

200 孔 / 平方英寸薄壁堇青石蜂窝陶瓷荣获江苏省科技进步二等奖。

1989

400 孔 / 平方英寸薄壁堇青石蜂窝陶瓷项目被列入国家第八个五年规划。

1996

蜂窝陶瓷荣获国家级新产品。

1998



1999

Honeycomb ceramic was listed into national key torch program project.

蜂窝陶瓷系列产品获重点国家级火炬计划项目。

与北京交通大学、解放军军事交通学院合作研发柴油机碳烟过滤用壁流式陶瓷过滤体，并列入国家 863 计划项目，实现了产业化。



600 hole/inch² cordierite honeycomb ceramic catalyst substrate was established as national science and technology innovation fund project.

600 孔 / 平方英寸堇青石蜂窝陶瓷催化剂载体被立为国家科技创新基金项目。

600 hole/inch² cordierite honeycomb ceramic catalyst substrate was established as national and provincial torch planning project.

宇星牌蜂窝陶瓷荣获江苏省名牌产品。

主要起草了《柴油机尾气颗粒捕捉器用壁流式蜂窝陶瓷》行业标准。

满足柴油车国 IV 以上排放标准的大规格堇青石蜂窝陶瓷载体，被立为江苏省科技成果转化专项资金项目。

国六用 400/4,600/3 蜂窝陶瓷载体研发成功。

2000

Our company cooperated with Beijing Jiaotong University and Military Transportation University to develop DPF and was listed into national "863" planning project the next year.

2003

Diesel Particulate Filter(DPF) won national key new product certificate.

柴油车尾气净化用壁流式蜂窝陶瓷荣获国家重点新产品证书。

2004

Diesel Particulate Filter(DPF) was listed into national and provincial torch planning program.

柴油车尾气净化用壁流式蜂窝陶瓷被立为国家级和省级火炬计划项。

2005



2006



600 孔 / 平方英寸堇青石蜂窝陶瓷催化剂载体被立为国家级和省级火炬计划项目。

2009

Yuxing honeycomb ceramic substrate won famous-brand product of Jiangsu province.

2012

Our company participated in drafting national industry standard of Diesel Particulate Filter(DPF) .

2015

Large-size cordierite honeycomb ceramic substrate which meets Euro-IV or higher emission standard of diesel engine was listed in special fund project of Jiangsu's technology achievement transformation.

2017

R&D 400/4,600/3 honeycomb ceramic substrate successfully.

蜂窝陶瓷简介

PRODUCTS INTRODUCTION

汽油机尾气净化用蜂窝陶瓷载体 (TWC)

Honeycomb Ceramic Substrate Used for Gasoline Engine After-treatment System(TWC)



(TWC)Product Highlights

产品特点

Low Coefficient of Thermal Expansion
热膨胀系数低

Good Thermal Shock Resistance
抗热震性能好

Thin Wall Thickness
孔壁薄

Lower Back Pressure Drop
背压小

High Surface Area
比表面积高

Uniformity and Stability Water Absorption
吸水率一致性好

Ideal Matching with Various Catalysts
与催化剂匹配性好

Narrow Tolerance, High ISO strength, Easy for Canning.
尺寸公差小, 抗压强度高, 易于封装

汽油机颗粒过滤用蜂窝陶瓷载体 (GPF)

Gasoline Particulate Filter (GPF)



(GPF)Product Highlights

产品特点

Narrow Pore diameter distribution
孔径分布窄

High Porosity
气孔率高

High Filtration Efficiency
过滤效率高

Low Backpressure Drop
排气背压低

Low Coefficient of Thermal Expansion
热膨胀系数低

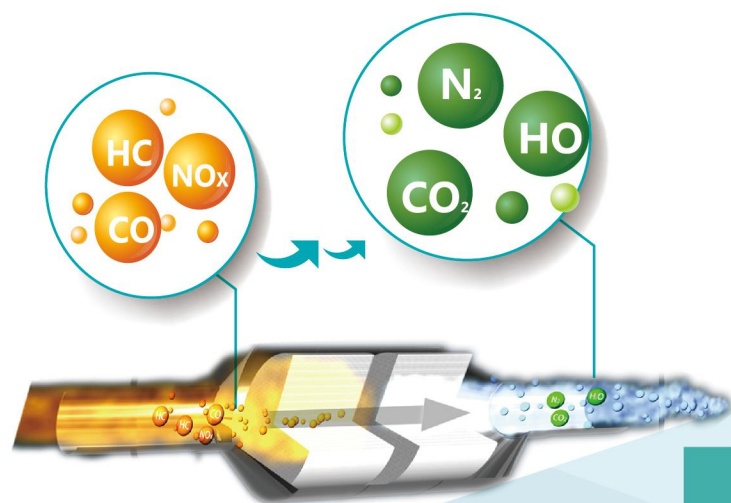
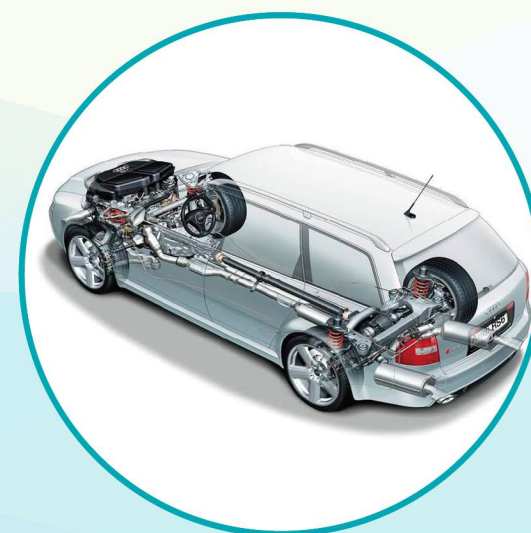
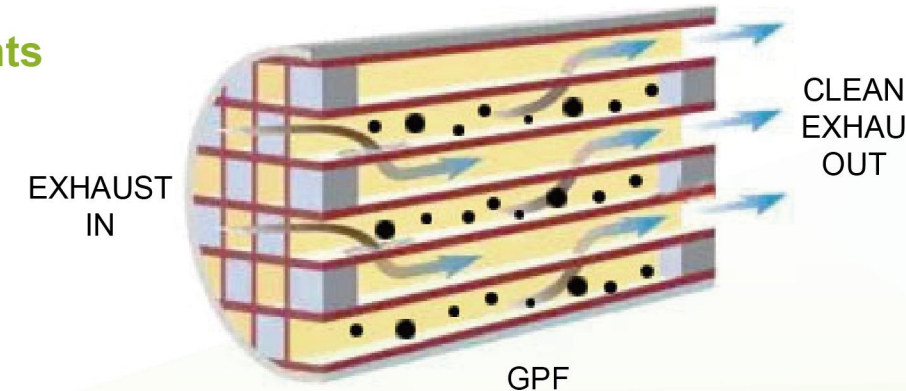
High Temperature Resistance and Thermal Shock Resistance
良好的抗高温性和耐热冲击性

Ideal Matching with Various Catalysts
与催化剂匹配良好

Narrow Tolerance, High ISO Strength, Easy for Canning
尺寸公差小, 机械强度高, 易于封装

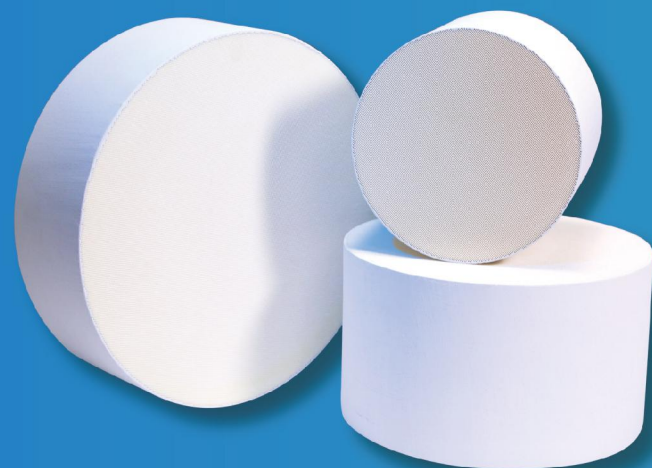
Gasoline Particulate Filter(GPF) use for gasoline engine, Filter and capture soot particles in exhaust gas, able to meet the particular matter (PM) and Particular number(PN) of China VI and Euro VI emission standard, It is a standard products in the aftertreatment system for gasoline vehicles that meet the China VI and Euro VI emission standards.

该产品应用于汽油机尾气净化, 过滤捕集尾气中碳烟颗粒, PM、PN 均满足国六和欧六排放标准要求, 是汽油车满足国六和欧六排放标准后处理系统中标准配置。



柴油机尾气净化用蜂窝陶瓷载体 (DOC/SCR)

Honeycomb Ceramic Substrate Used for Diesel Engine After-treatment System(DOC and SCR)



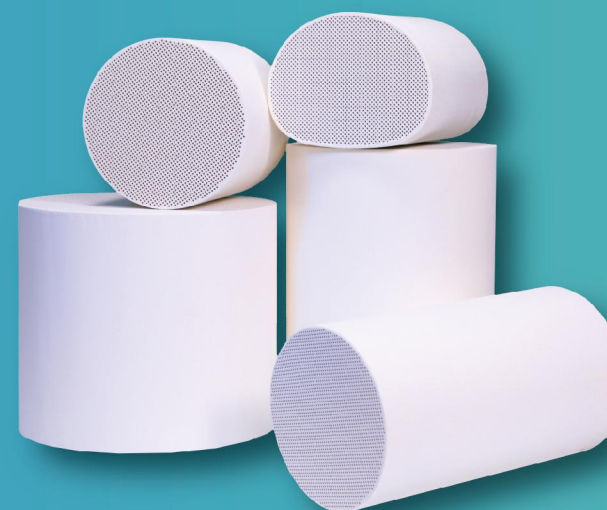
The DOC and SCR Ceramic Substrate can meet Euro V and European VI emission standards and widely used in Cummins, Weichai, Yuchai, FAW, Yunnei and other OEMs, Our market share keeps ahead.

产品可满足欧 V, 欧 VI 排放标准要求, 产品已广泛应用于康明斯、潍柴、玉柴、中国一汽, 云内动力等 OEM 主机厂, 市场份额遥遥领先。

Max diameter **13** inch

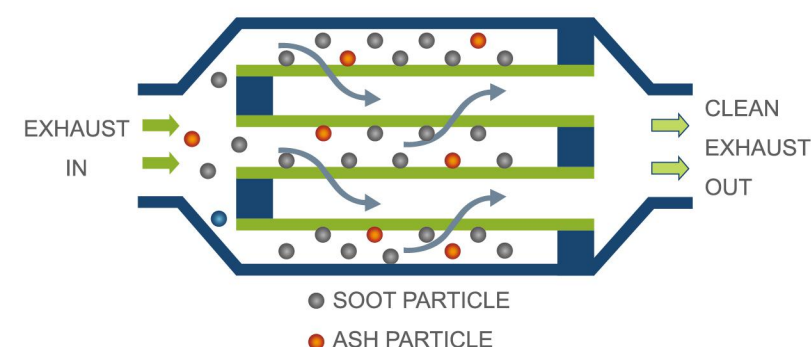
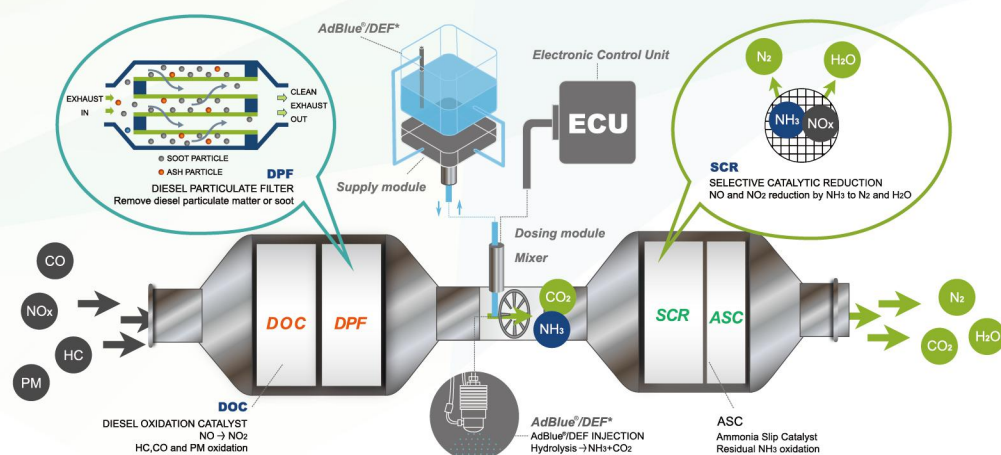
柴油机碳烟颗粒过滤用蜂窝陶瓷载体 (DPF)

Diesel Particulate Filter Used for Diesel Engine After-treatment System(DPF)



The Diesel Particulate Filter(DPF) able to meet the Particular Matter(PM) and Particular Number (PN) regulations that legislated in European , American and China countries, such as Euro V, Euro VI , China VI, CARB and VERT.

该产品不仅可以满足欧六和国六排放标准中对 PM 的要求, 还可以满足 PN 的要求, 产品已达到欧 V, 欧 VI 和国六排放要求, 并可满足 CARB 和 VERT 的认证要求。



(DOC and SCR)Product Highlights

- Low Coefficient of Thermal Expansion
- Good Thermal Shock Resistance
- Thin Wall Thickness
- Lower Back Pressure Drop
- High Surface Area
- Uniformity and Stability Water Absorption
- Ideal Matching with Various Catalysts
- Narrow Tolerance, High ISO strength, Easy for Canning.

产品特点

- 热膨胀系数低,
- 抗热震性能好,
- 孔壁薄,
- 背压小,
- 比表面积高,
- 吸水率一致性好,
- 与催化剂匹配性好,
- 尺寸公差小, 抗压强度高, 易于封装。

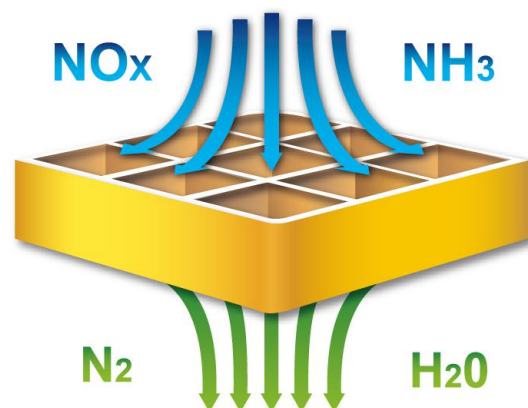
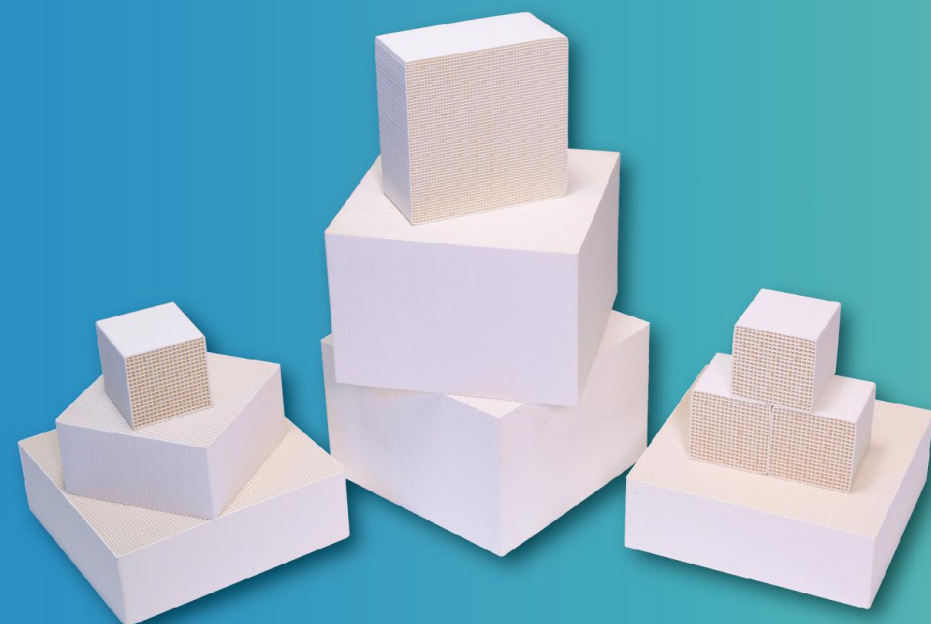
(DPF)Product Highlights

- Uniformity Pore Diameter
- Uniformity Pore Distribution
- High Porosity
- Low Back Pressure Drop
- High Filtration Efficiency
- Low Coefficient of Thermal Expansion
- Good Thermal Shock Resistance
- High Temperature Resistance
- Ideal Matching with Various Catalysts
- Narrow Tolerance, High ISO strength, Easy for Canning

产品特点

- 孔径一致性好
- 气孔分布均匀
- 气孔率高
- 背压低
- 碳烟颗粒过滤效率高
- 热膨胀系数低
- 抗热震性能好
- 耐高温
- 与催化剂匹配性好
- 尺寸公差小, 抗压强度高, 易于封装

工业废气催化净化用蜂窝陶瓷载体 Honeycomb Ceramic Substrate used for Industrial Waste Gas After-treatment System



Product Highlights

- Low Coefficient of Thermal Expansion
- Good Thermal Shock Resistance
- High Surface Area
- High Porosity
- Low Back Pressure Drop
- Good Resistance to Chemical Corrosion
- Good Thermal stability, Resistance High Temperature
- Ideal Matching with Various Catalysts

产品特点

- 热膨胀系数低
- 抗热震性能好
- 比表面积大
- 气孔率高
- 通气阻力小
- 耐化学腐蚀
- 热稳定性好, 耐高温
- 与催化剂匹配性好

多种应用领域

Marine

Chemical

Oil

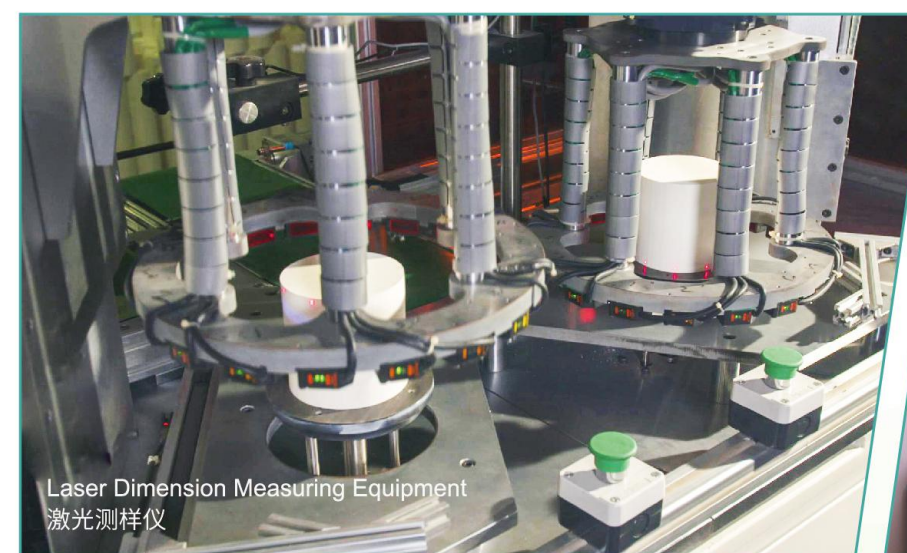
Power

先进的研发，测试和生产设备

ADVANCED R&D, TESTING AND PRODUCTION EQUIPMENT

We are always pay much attention on technology innovation, invest 10-15% of sales every year on R&D and technological upgrading.
Our R&D equipment fixed assets is more than 15million CNY, 90% of our test equipments are the top famous brands in the worldwide.

一直以来我们非常重视科技创新工作，每年投入销售的 10-15% 进行研发和技术改造升级。
目前研发设备固定资产超过 1500 万，绝大部分设备都是世界一流品牌。





ISO Strength Test Equipment
等静压强度测试仪



Coefficient of Thermal Expansion Test Equipment
热膨胀系数测试仪



X-ray Diffraction(XRD) Test Equipment
X 射线衍射分析仪



DSC/DTA-TG Test Equipment
差热分析仪



Back Pressure Drop Test Equipment
背压测试仪



Mercury pressure meter
全自动压汞仪



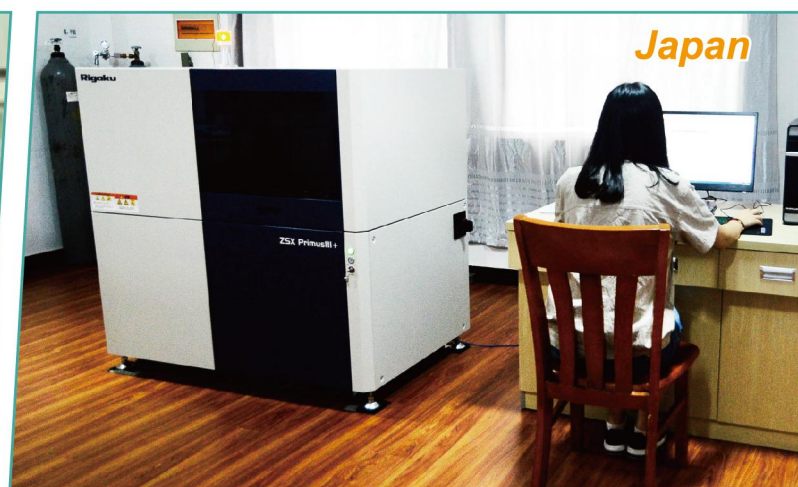
Scanning Electron Microscope
扫描电子显微镜



Particle Size Analyze Equipment
马尔文粒度分析仪



Water Absorption Test Equipment
吸水率测试仪



X-Ray Fluorescence(XRF) Test Equipment
XRF 荧光光谱分析仪



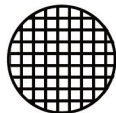
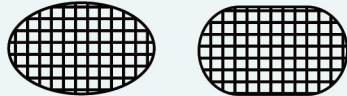
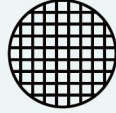
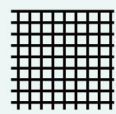
112 meter natural gas tunnel kiln
112 米天然气隧道窑

产品规格尺寸

PRODUCTS CATALOG

Own Four types of products, with nearly 1000 dimensions, Matching more than 90% of different brands, different models of cars', buses' and trucks' application requirement.

四大类的产品，拥有近千种规格尺寸，满足全球 90% 以上不同品牌，不同车型的配套需求。

Type	Shape	Cell Density (CPSI)	Min Diameter mm/Inch	Max Diameter Mm/Inch
TWC		300,400,600	76.2 3.0"	143.8 5.66"
TWC		300,400,600	57.15 2.25"	169.7 6.68"
GPF		300	101.6 4.0"	143.8 5.66"
DOC/SCR		300,400,600	143.8 5.66"	330 13"
DPF		100,200,300	76.2 3.0"	355 14"
VOC		50,100,200, 230,300,400	50 1.96"	150 1.96"

Your satisfaction is our pursuit!

您的满意
我的追求！

